

Occupational Injuries and Illnesses and Work-related Fatalities

Technical Note

The series covers two separate programs of the Bureau of Labor Statistics—the annual Survey of Occupational Injuries and Illnesses (SOII) and the Census of Fatal Occupational Injuries (CFOI). Data from both programs are used by employers, workers, and safety and health specialists in efforts to prevent job-related injuries and illnesses and lessen the severity of those that do occur.

The SOII, in cooperation with State agencies, gathers information from employers on the number of nonfatal work-related injuries and illnesses. Each year the survey provides estimates by industry and by State of the number and incidence of workplace injuries and illnesses, and the number of injuries and illnesses that involve lost work time. The median number of days away from work and the percent distribution of days away from work by industry are also given.

For workers with injuries and illnesses involving time away from work, the survey estimates the number and percent distribution by occupation, sex, age, race, Hispanic origin, and length of service. Numbers, percent distributions, and incidence rates are also calculated by detailed nature of injury and illness, part of body affected, source of the injury or illness, and type of event or exposure leading to the incident. Cross tabulations of the worker characteristics and injury/illness circumstances are also available. The median and percent distribution of days away from work are estimated for each worker and case characteristic.

Additional information can be obtained from the annual bulletin: *Occupational Injuries and Illnesses: Counts, Rates, and Characteristics*.

The CFOI collects a systematic, verifiable count of all

fatal work injuries as well as detailed information on how these events occurred. Because studies have shown that no single source captures all worker deaths, multiple data sources are used to identify, verify, and profile fatal work injuries. Death certificates, State and Federal workers' compensation reports, Occupational Safety and Health Administration (OSHA) fatality reports, news media, coroner, medical examiner, and autopsy reports, State motor vehicle fatality reports, and follow-up questionnaires are among the major sources used to compile the Federal Government's most complete count of job-related fatalities.

Information such as type of incident and machinery or equipment involved; nature of injury and part of body affected; occupation, age, race, and sex of the worker; and industry of the employer is collected for each fatal injury.

Summary tables are released approximately 8 months after the end of the reference year. Profiles of fatalities occurring to specific groups of workers, or for specific types of events, or for those involving certain types of equipment or machinery are also possible.

Additional information

For more detailed information on these programs, contact the Office of Safety, Health, and Working Conditions, Bureau of Labor Statistics, 2 Massachusetts Ave. NE, Room 3180, Washington, DC 20212.

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TABLE E-1. Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997

| Characteristic | All occupations | Truckdrivers | Laborers, except construction | Nursing aides, orderlies and attendants | Janitors and cleaners |
|--------------------------------------------------------|------------------|--------------|-------------------------------|-----------------------------------------|-----------------------|
| Total number of cases | 1,833,380 | 145,536 | 106,887 | 91,267 | 45,770 |
| Percent of total by characteristic— | | | | | |
| Gender | | | | | |
| Men | 65.9 | 92.2 | 85.4 | 9.7 | 70.7 |
| Women | 33.0 | 7.5 | 13.9 | 90.1 | 28.6 |
| Age | | | | | |
| 14 - 15 | (²) | — | — | — | — |
| 16 - 19 | 3.3 | .6 | 4.7 | 2.8 | 2.2 |
| 20 - 24 | 11.3 | 6.0 | 15.8 | 12.5 | 7.4 |
| 25 - 34 | 29.1 | 29.4 | 34.1 | 29.6 | 27.0 |
| 35 - 44 | 28.2 | 30.9 | 24.1 | 27.4 | 27.4 |
| 45 - 54 | 17.1 | 21.2 | 13.5 | 17.5 | 20.3 |
| 55 - 64 | 7.3 | 9.1 | 4.4 | 7.2 | 10.8 |
| 65 and over | 1.2 | 1.1 | .8 | 1.5 | 2.6 |
| Length of service with employer | | | | | |
| Less than 3 months | 12.9 | 10.8 | 18.5 | 12.2 | 14.6 |
| 3 - 11 months | 17.9 | 17.5 | 20.9 | 20.9 | 19.6 |
| 1 - 5 years | 31.7 | 30.9 | 29.4 | 37.3 | 31.1 |
| More than 5 years | 26.2 | 26.7 | 19.0 | 20.3 | 24.9 |
| Not reported | 11.3 | 14.1 | 12.1 | 9.3 | 9.8 |
| Race or ethnic origin | | | | | |
| White, non-Hispanic | 52.7 | 56.3 | 49.2 | 48.2 | 40.8 |
| Black, non-Hispanic | 8.9 | 7.4 | 11.3 | 21.4 | 14.5 |
| Hispanic | 10.2 | 6.3 | 11.5 | 7.6 | 20.0 |
| Asian or Pacific Islander | 1.7 | .9 | 1.4 | 1.5 | 1.3 |
| American Indian or Alaskan Native | .4 | .2 | .4 | .2 | .3 |
| Not reported | 26.0 | 29.0 | 26.1 | 21.1 | 23.1 |
| Major industry division | | | | | |
| Agriculture, forestry, and fishing ³ | 2.2 | .7 | .8 | — | .6 |
| Mining ⁴ | 1.0 | .5 | 1.8 | — | (²) |
| Construction | 10.4 | 4.1 | — | — | 1.2 |
| Manufacturing | 24.3 | 8.3 | 33.7 | (²) | 16.7 |
| Transportation and public utilities ⁴ | 12.0 | 53.4 | 8.8 | — | 2.6 |
| Wholesale trade | 7.5 | 16.6 | 26.4 | — | 2.5 |
| Retail trade | 17.1 | 10.7 | 15.8 | — | 13.7 |
| Finance, insurance, and real estate | 2.3 | .3 | 1.3 | .4 | 13.4 |
| Services | 23.1 | 5.4 | 11.5 | 99.6 | 49.2 |
| Number of days away from work | | | | | |
| 1 | 16.6 | 11.8 | 19.6 | 16.1 | 16.7 |
| 2 | 13.0 | 10.0 | 13.3 | 15.7 | 13.2 |
| 3 - 5 | 20.4 | 19.6 | 20.8 | 23.1 | 22.6 |
| 6 - 10 | 13.1 | 12.9 | 12.1 | 14.3 | 11.7 |
| 11 - 20 | 11.7 | 13.1 | 11.8 | 11.2 | 13.2 |
| 21 - 30 | 6.7 | 7.9 | 6.0 | 5.8 | 5.0 |
| 31 or more | 18.5 | 24.7 | 16.4 | 13.8 | 17.6 |
| Median days away from work | 5 | 9 | 5 | 5 | 5 |

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997 — Continued

| Characteristic | Construction laborers | Assemblers | Carpenters | Cooks | Stock handlers and baggers | Welders and cutters |
|--------------------------------------------------------|-----------------------|------------------|------------|--------|----------------------------|---------------------|
| Total number of cases | 45,761 | 44,328 | 37,091 | 31,520 | 29,180 | 28,389 |
| Percent of total by characteristic— | | | | | | |
| Gender | | | | | | |
| Men | 96.4 | 62.9 | 97.7 | 51.6 | 63.7 | 95.1 |
| Women | 2.9 | 36.3 | 1.8 | 47.7 | 32.2 | 3.8 |
| Age | | | | | | |
| 14 - 15 | — | — | — | .3 | — | — |
| 16 - 19 | 4.8 | 2.5 | 1.9 | 9.6 | 12.8 | 1.5 |
| 20 - 24 | 18.6 | 10.8 | 9.5 | 11.4 | 17.3 | 11.1 |
| 25 - 34 | 36.2 | 31.8 | 35.9 | 27.8 | 27.6 | 34.2 |
| 35 - 44 | 25.9 | 29.0 | 32.1 | 26.0 | 20.8 | 30.2 |
| 45 - 54 | 9.2 | 17.4 | 12.3 | 12.3 | 10.2 | 15.2 |
| 55 - 64 | 3.2 | 6.3 | 5.0 | 8.2 | 4.5 | 6.7 |
| 65 and over | .3 | .8 | .6 | 1.8 | 1.9 | .2 |
| Length of service with employer | | | | | | |
| Less than 3 months | 30.6 | 13.5 | 17.4 | 15.9 | 15.7 | 14.1 |
| 3 - 11 months | 21.7 | 16.0 | 22.1 | 26.3 | 18.7 | 19.3 |
| 1 - 5 years | 31.2 | 31.0 | 33.7 | 29.8 | 26.7 | 35.9 |
| More than 5 years | 8.7 | 28.5 | 17.5 | 19.5 | 19.6 | 23.5 |
| Not reported | 7.8 | 11.1 | 9.3 | 8.5 | 19.3 | 7.2 |
| Race or ethnic origin | | | | | | |
| White, non-Hispanic | 57.7 | 50.4 | 68.1 | 47.0 | 44.4 | 66.9 |
| Black, non-Hispanic | 7.5 | 8.3 | 2.1 | 12.3 | 6.5 | 5.1 |
| Hispanic | 17.9 | 9.7 | 8.2 | 12.8 | 7.7 | 8.4 |
| Asian or Pacific Islander | 1.2 | 1.9 | 1.1 | 2.9 | 1.3 | .9 |
| American Indian or Alaskan Native | .5 | .4 | .5 | .9 | .3 | .4 |
| Not reported | 15.2 | 29.3 | 20.0 | 24.1 | 39.8 | 18.2 |
| Major industry division | | | | | | |
| Agriculture, forestry, and fishing ³ | — | — | — | — | — | .3 |
| Mining ⁴ | — | (²) | .1 | — | .1 | 1.0 |
| Construction | 96.7 | 1.1 | 80.1 | — | — | 6.7 |
| Manufacturing | .2 | 83.9 | 7.8 | 1.1 | 4.6 | 78.7 |
| Transportation and public utilities ⁴ | .6 | .6 | .3 | .3 | .7 | 2.7 |
| Wholesale trade | .3 | 6.3 | 1.8 | — | 9.7 | 4.9 |
| Retail trade | — | 3.1 | 2.9 | 68.2 | 84.2 | .5 |
| Finance, insurance, and real estate | .1 | — | 1.6 | .4 | — | .7 |
| Services | 2.0 | 4.9 | 5.2 | 29.9 | .6 | 4.5 |
| Number of days away from work | | | | | | |
| 1 | 12.4 | 17.8 | 12.1 | 15.2 | 16.0 | 26.7 |
| 2 | 10.7 | 12.3 | 13.9 | 14.8 | 16.0 | 14.5 |
| 3 - 5 | 22.3 | 19.0 | 16.4 | 25.6 | 24.0 | 18.2 |
| 6 - 10 | 12.7 | 11.6 | 13.0 | 12.2 | 13.0 | 11.0 |
| 11 - 20 | 11.5 | 12.0 | 12.0 | 10.3 | 12.0 | 9.5 |
| 21 - 30 | 7.2 | 6.6 | 9.7 | 8.6 | 5.3 | 6.2 |
| 31 or more | 23.1 | 20.7 | 22.9 | 13.4 | 13.8 | 13.9 |
| Median days away from work | 7 | 6 | 8 | 5 | 5 | 4 |

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997 — Continued

| Characteristic | All occupations | Truckdrivers | Laborers, except construction | Nursing aides, orderlies and attendants | Janitors and cleaners |
|--------------------------------------------------------|-----------------|------------------|-------------------------------|-----------------------------------------|-----------------------|
| Percent of total by characteristic— | | | | | |
| Nature of injury, illness | | | | | |
| Sprains, strains, tears | 43.6 | 54.1 | 41.7 | 64.4 | 44.5 |
| Fractures | 6.5 | 7.0 | 8.0 | 2.2 | 6.3 |
| Cuts, lacerations | 8.5 | 3.9 | 9.3 | 1.1 | 7.4 |
| Amputations | .6 | .2 | .6 | — | .3 |
| Bruises, contusions | 9.0 | 7.9 | 11.3 | 7.1 | 11.4 |
| Heat burns, scalds | 1.6 | .2 | .9 | .3 | .9 |
| Chemical burns | .7 | .3 | .9 | .5 | 1.6 |
| Carpal tunnel syndrome | 1.6 | .3 | 1.0 | .1 | .7 |
| Tendonitis | 1.0 | .2 | .8 | .4 | .6 |
| Multiple traumatic injuries and disorders | 3.3 | 5.6 | 2.8 | 1.9 | 3.4 |
| With fractures and burns | .6 | .4 | .6 | .1 | .4 |
| With sprains and bruises | 1.2 | 2.0 | 1.1 | 1.1 | 1.5 |
| Soreness, pain, including back | 6.3 | 6.1 | 6.2 | 10.8 | 6.7 |
| Back pain only | 2.7 | 2.4 | 2.9 | 5.1 | 2.8 |
| All other natures | 17.3 | 14.2 | 16.6 | 11.2 | 16.3 |
| Part of body affected | | | | | |
| Head | 6.7 | 4.5 | 6.9 | 3.5 | 7.2 |
| Eye(s) | 3.5 | 1.4 | 4.2 | 1.0 | 3.5 |
| Neck, including throat | 1.7 | 2.1 | 1.5 | 2.0 | 1.6 |
| Trunk | 37.5 | 43.3 | 38.1 | 57.0 | 40.1 |
| Shoulder, including clavicle, scapula | 5.1 | 7.1 | 5.5 | 7.3 | 5.6 |
| Back, including spine, spinal cord | 25.7 | 28.1 | 24.7 | 43.6 | 27.7 |
| Upper extremities | 22.9 | 12.2 | 24.2 | 12.1 | 21.8 |
| Wrist(s) | 5.0 | 2.8 | 5.4 | 4.1 | 3.6 |
| Hand(s), except finger(s) | 4.0 | 1.8 | 4.4 | 1.3 | 4.4 |
| Finger(s), fingernail(s) | 8.4 | 3.0 | 8.9 | 2.5 | 8.0 |
| Lower extremities | 20.5 | 24.0 | 22.3 | 13.7 | 18.7 |
| Knee(s) | 7.1 | 8.1 | 6.2 | 5.9 | 5.5 |
| Foot, toe | 4.9 | 4.4 | 7.0 | 2.1 | 5.1 |
| Body systems | 1.4 | 1.2 | .8 | .9 | 1.8 |
| Multiple body parts | 8.2 | 12.2 | 5.2 | 9.9 | 7.3 |
| All other parts of body | 1.1 | .6 | 1.0 | .8 | 1.5 |
| Source of injury, illness | | | | | |
| Chemicals and chemical products | 1.8 | 1.0 | 1.6 | 1.0 | 3.3 |
| Containers | 14.6 | 20.3 | 23.5 | 1.6 | 17.1 |
| Furniture and fixtures | 3.5 | 2.0 | 3.6 | 3.5 | 7.6 |
| Machinery | 6.7 | 2.4 | 6.2 | .9 | 8.2 |
| Parts and materials | 11.3 | 8.7 | 15.9 | .2 | 5.8 |
| Bodily motion or position of injured, ill worker | 15.1 | 13.9 | 12.5 | 9.0 | 13.8 |
| Floors, walkways, ground surfaces | 15.7 | 18.7 | 11.0 | 11.1 | 19.2 |
| Tools, instruments, and equipment | 4.3 | 1.1 | 3.7 | .2 | 5.2 |
| Vehicles | 8.1 | 24.6 | 8.6 | 3.6 | 5.0 |
| Health care patient | 4.7 | (²) | .1 | 60.0 | — |
| All other sources | 14.3 | 7.3 | 13.3 | 8.7 | 14.8 |

See footnotes at end of table.

TABLE E-1. **Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997** — Continued

| Characteristic | Construction laborers | Assemblers | Carpenters | Cooks | Stock handlers and baggers | Welders and cutters |
|--------------------------------------------------------|-----------------------|------------|------------|-------|----------------------------|---------------------|
| Percent of total by characteristic— | | | | | | |
| Nature of injury, illness | | | | | | |
| Sprains, strains, tears | 33.8 | 38.9 | 34.2 | 25.9 | 49.2 | 30.7 |
| Fractures | 8.9 | 4.7 | 11.5 | 6.8 | 4.2 | 6.4 |
| Cuts, lacerations | 13.2 | 11.9 | 18.1 | 19.8 | 8.9 | 8.3 |
| Amputations | .6 | 1.2 | .3 | .5 | — | 1.8 |
| Bruises, contusions | 9.9 | 7.8 | 8.2 | 10.0 | 13.2 | 6.9 |
| Heat burns, scalds | 2.1 | .6 | .1 | 17.5 | — | 3.7 |
| Chemical burns | .8 | .5 | .2 | .4 | .2 | — |
| Carpal tunnel syndrome | .6 | 5.0 | .5 | 2.0 | .6 | 1.7 |
| Tendonitis | .3 | 3.0 | .5 | .4 | .8 | .6 |
| Multiple traumatic injuries and disorders | 3.0 | 3.0 | 3.4 | 2.0 | 2.9 | 2.2 |
| With fractures and burns | .8 | 1.0 | 1.3 | — | .2 | .6 |
| With sprains and bruises | 1.3 | .9 | .8 | 1.5 | 1.1 | .3 |
| Soreness, pain, including back | 6.4 | 6.4 | 4.3 | 3.3 | 6.4 | 4.1 |
| Back pain only | 2.9 | 2.1 | 1.9 | 1.3 | 2.7 | 1.5 |
| All other natures | 20.5 | 17.1 | 18.5 | 11.5 | 13.4 | 33.4 |
| Part of body affected | | | | | | |
| Head | 9.0 | 7.0 | 7.7 | 4.7 | 4.5 | 24.8 |
| Eye(s) | 5.6 | 4.3 | 4.2 | 1.8 | 1.1 | 21.2 |
| Neck, including throat | .9 | 1.9 | 2.2 | .9 | 1.2 | 1.1 |
| Trunk | 35.2 | 32.0 | 33.0 | 21.7 | 45.3 | 29.9 |
| Shoulder, including clavicle, scapula | 4.9 | 6.2 | 4.5 | 1.3 | 5.7 | 3.8 |
| Back, including spine, spinal cord | 21.9 | 20.1 | 21.5 | 17.1 | 31.0 | 19.0 |
| Upper extremities | 18.8 | 37.7 | 23.9 | 46.0 | 19.7 | 22.5 |
| Wrist(s) | 3.0 | 9.9 | 2.8 | 8.0 | 3.9 | 4.1 |
| Hand(s), except finger(s) | 3.2 | 6.3 | 4.2 | 8.4 | 4.2 | 3.9 |
| Finger(s), fingernail(s) | 8.3 | 12.8 | 12.6 | 18.8 | 7.4 | 10.2 |
| Lower extremities | 27.4 | 14.2 | 26.3 | 16.7 | 23.6 | 16.6 |
| Knee(s) | 7.1 | 4.6 | 7.3 | 5.7 | 7.4 | 4.9 |
| Foot, toe | 8.5 | 4.0 | 9.6 | 4.7 | 8.4 | 6.1 |
| Body systems | .7 | 1.1 | .8 | 1.7 | .3 | .6 |
| Multiple body parts | 7.4 | 5.6 | 4.9 | 8.0 | 4.9 | 3.5 |
| All other parts of body | .6 | .5 | 1.3 | .4 | .5 | 1.0 |
| Source of injury, illness | | | | | | |
| Chemicals and chemical products | 1.4 | 1.8 | 1.0 | 1.8 | .6 | .8 |
| Containers | 6.3 | 9.5 | 3.3 | 15.4 | 36.2 | 5.3 |
| Furniture and fixtures | 1.1 | 3.8 | 2.5 | 2.1 | 4.7 | 2.4 |
| Machinery | 6.2 | 9.9 | 4.2 | 11.2 | 6.6 | 8.5 |
| Parts and materials | 25.8 | 20.9 | 25.3 | 2.0 | 3.5 | 30.6 |
| Bodily motion or position of injured, ill worker | 11.7 | 26.0 | 10.8 | 10.2 | 12.5 | 12.3 |
| Floors, walkways, ground surfaces | 14.1 | 7.0 | 16.4 | 22.8 | 10.5 | 4.9 |
| Tools, instruments, and equipment | 11.3 | 6.5 | 9.5 | 11.8 | 4.8 | 12.8 |
| Vehicles | 5.8 | 4.2 | 5.4 | 1.5 | 8.4 | 2.6 |
| Health care patient | — | — | — | — | — | — |
| All other sources | 16.3 | 10.4 | 21.6 | 21.2 | 12.2 | 19.8 |

See footnotes at end of table.

TABLE E-1. Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997 — Continued

| Characteristic | All occupations | Truckdrivers | Laborers, except construction | Nursing aides, orderlies and attendants | Janitors and cleaners |
|-------------------------------------------------------|-----------------|------------------|-------------------------------|-----------------------------------------|-----------------------|
| Percent of total by characteristic— | | | | | |
| Event or exposure | | | | | |
| Contact with objects and equipment | 27.0 | 16.9 | 33.1 | 8.4 | 26.8 |
| Struck by object | 13.1 | 8.4 | 15.8 | 4.9 | 13.1 |
| Struck against object | 7.0 | 4.5 | 8.0 | 2.4 | 7.8 |
| Caught in or compressed by equipment or objects | 4.4 | 2.3 | 6.2 | .9 | 4.3 |
| Fall to lower level | 5.4 | 8.8 | 4.7 | 1.4 | 6.4 |
| Fall to same level | 10.8 | 10.3 | 7.3 | 10.0 | 14.4 |
| Slip, trip, loss of balance—without fall | 3.1 | 4.0 | 2.2 | 2.1 | 3.0 |
| Overexertion | 27.7 | 30.6 | 31.9 | 56.3 | 27.6 |
| Overexertion in lifting | 16.2 | 16.9 | 20.4 | 31.6 | 16.0 |
| Repetitive motion | 4.1 | 1.1 | 3.2 | .5 | 2.1 |
| Exposure to harmful substances or environments | 4.6 | 1.6 | 3.2 | 2.2 | 5.1 |
| Transportation incidents | 4.0 | 13.6 | 3.4 | 2.8 | 2.2 |
| Fires and explosions | .2 | (²) | .1 | .1 | .4 |
| Assaults and violent acts | 1.5 | .8 | .6 | 6.8 | .2 |
| By person(s) | 1.2 | .6 | .2 | 6.6 | .1 |
| By other than person | .3 | .2 | .4 | .2 | — |
| All other events | 11.6 | 12.3 | 10.3 | 9.4 | 11.9 |

See footnotes at end of table.

TABLE E-1. **Selected characteristics of workers and cases in 10 occupations: Percent distribution of days-away-from-work cases,¹ 1997** — Continued

| Characteristic | Construction laborers | Assemblers | Carpenters | Cooks | Stock handlers and baggers | Welders and cutters |
|-------------------------------------------------------|-----------------------|------------|------------|-------|----------------------------|---------------------|
| Percent of total by characteristic— | | | | | | |
| Event or exposure | | | | | | |
| Contact with objects and equipment | 38.5 | 32.1 | 41.0 | 29.9 | 27.7 | 39.0 |
| Struck by object | 21.6 | 14.1 | 23.8 | 16.0 | 17.1 | 19.0 |
| Struck against object | 7.1 | 8.1 | 10.3 | 9.2 | 7.0 | 6.4 |
| Caught in or compressed by equipment or objects | 5.9 | 6.8 | 2.6 | 2.5 | 2.7 | 4.6 |
| Fall to lower level | 7.8 | 1.5 | 11.4 | 3.3 | 3.0 | 2.3 |
| Fall to same level | 7.8 | 5.5 | 6.0 | 19.3 | 8.6 | 4.5 |
| Slip, trip, loss of balance—without fall | 3.7 | 2.8 | 2.4 | 4.0 | 2.5 | 1.5 |
| Overexertion | 23.2 | 27.1 | 23.3 | 13.1 | 38.0 | 24.6 |
| Overexertion in lifting | 12.9 | 14.2 | 15.4 | 9.1 | 25.4 | 14.0 |
| Repetitive motion | 1.7 | 15.5 | 1.7 | 2.8 | 3.0 | 4.6 |
| Exposure to harmful substances or environments | 5.0 | 3.4 | 1.9 | 19.4 | 1.2 | 13.7 |
| Transportation incidents | 3.2 | 1.8 | 1.4 | .3 | 2.4 | .5 |
| Fires and explosions | .1 | .1 | — | .7 | — | .3 |
| Assaults and violent acts | .2 | — | .3 | .8 | .5 | .3 |
| By person(s) | .1 | — | .2 | .7 | .5 | — |
| By other than person | — | — | — | — | — | .3 |
| All other events | 8.9 | 10.2 | 10.5 | 6.5 | 13.1 | 8.7 |

¹ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

² Less than 0.1 percent.

³ Excludes farms with fewer than 11 employees.

⁴ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S.

Department of Labor; and by the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal industries.

NOTE: Dashes indicate data that are not available. Because of rounding and nonclassifiable responses, data may not sum to the totals.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

TABLE E-2. Fatal occupational injuries by occupation and event or exposure, 1998

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|---------------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Total | 6,026 | 43.6 | 15.9 | 15.6 | 11.6 | 9.5 | 3.4 |
| Managerial and professional specialty | 637 | 44.4 | 31.2 | 6.6 | 9.1 | 6.8 | 1.7 |
| Executive, administrative, and managerial | 408 | 38.7 | 35.0 | 8.3 | 9.6 | 5.9 | 2.2 |
| Administrators and officials, public administration | 10 | 50.0 | 40.0 | — | — | — | — |
| Administrators, protective services | 7 | — | 57.1 | — | — | — | — |
| Financial managers | 8 | 50.0 | 50.0 | — | — | — | — |
| Managers, marketing, advertising, and public relations | 7 | 85.7 | — | — | — | — | — |
| Managers, food serving and lodging establishments | 56 | 17.9 | 69.6 | — | — | 7.1 | — |
| Managers, properties and real estate | 16 | 25.0 | 43.8 | — | 31.2 | — | — |
| Managers, service organizations, n.e.c. | 10 | 40.0 | 50.0 | — | — | — | — |
| Managers and administrators, n.e.c. | 215 | 35.3 | 27.0 | 14.0 | 13.0 | 7.4 | 3.3 |
| Management related occupations | 62 | 59.7 | 25.8 | 4.8 | 6.5 | — | — |
| Accountants and auditors | 18 | 50.0 | 38.9 | — | — | — | — |
| Other financial officers | 10 | 50.0 | 50.0 | — | — | — | — |
| Business and promotion agents | 4 | 75.0 | — | — | — | — | — |
| Construction inspectors | 6 | 66.7 | — | — | — | — | — |
| Inspectors and compliance officers, except construction | 10 | 60.0 | — | — | — | — | — |
| Professional specialty | 229 | 54.6 | 24.5 | 3.5 | 8.3 | 8.3 | — |
| Engineers, architects, and surveyors | 48 | 62.5 | 12.5 | 6.2 | 6.2 | 10.4 | — |
| Engineers | 46 | 63.0 | 13.0 | — | 6.5 | 10.9 | — |
| Civil engineers | 9 | 88.9 | — | — | — | — | — |
| Electrical and electronic | 9 | — | 33.3 | — | — | 33.3 | — |
| Industrial | 4 | 100.0 | — | — | — | — | — |
| Mathematical and computer scientists | 8 | 62.5 | 37.5 | — | — | — | — |
| Computer systems analysts and scientists | 8 | 62.5 | 37.5 | — | — | — | — |
| Natural scientists | 10 | 70.0 | — | — | — | — | — |
| Health diagnosing occupations | 14 | 21.4 | 42.9 | — | — | 21.4 | — |
| Physicians | 8 | 37.5 | — | — | — | — | — |
| Health assessment and treating occupations | 17 | 58.8 | 23.5 | — | — | — | — |
| Registered nurses | 14 | 64.3 | 21.4 | — | — | — | — |
| Teachers, postsecondary | 11 | 63.6 | — | — | — | — | — |
| Teachers, except postsecondary | 37 | 67.6 | 21.6 | — | — | — | — |
| Teachers, elementary school | 5 | 60.0 | — | — | — | — | — |
| Teachers, secondary school | 8 | 50.0 | 50.0 | — | — | — | — |
| Social, recreation, and religious workers | 23 | 39.1 | 43.5 | — | — | — | — |
| Social workers | 11 | 45.5 | 54.5 | — | — | — | — |
| Clergy | 7 | 42.9 | — | — | — | — | — |
| Lawyers and judges | 17 | 47.1 | 47.1 | — | — | — | — |
| Lawyers | 17 | 47.1 | 47.1 | — | — | — | — |
| Writers, artists, entertainers, and athletes | 40 | 45.0 | 22.5 | — | 15.0 | 15.0 | — |
| Photographers | 6 | 100.0 | — | — | — | — | — |
| Artists, performers, and related workers | 8 | — | 50.0 | — | — | — | — |
| Athletes | 14 | 28.6 | — | — | 28.6 | 35.7 | — |
| Technical, sales, and administrative support | 678 | 45.0 | 41.7 | 4.0 | 5.3 | 2.9 | .7 |
| Technicians and related support occupations | 168 | 83.3 | 7.1 | 4.2 | — | 4.2 | — |
| Health technologists and technicians | 21 | 76.2 | — | — | — | — | — |

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by occupation and event or exposure, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|---------------------------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Technical, sales, and administrative support – continued | | | | | | | |
| Clinical laboratory technologists and technicians | 3 | 100.0 | — | — | — | — | — |
| Engineering and related technologists and technicians | 29 | 51.7 | 24.1 | 17.2 | — | — | — |
| Electrical and electronic technicians | 14 | 50.0 | 21.4 | — | — | — | — |
| Technicians, except health, engineering, and science | 113 | 94.7 | 2.7 | — | — | 2.7 | — |
| Airplane pilots and navigators | 91 | 100.0 | — | — | — | — | — |
| Sales occupations | 396 | 29.3 | 59.8 | 3.8 | 4.5 | 1.5 | 1.0 |
| Supervisors and proprietors, sales occupations | 185 | 14.6 | 73.0 | 5.4 | 5.4 | — | — |
| Sales representatives, finance and business services | 31 | 64.5 | 25.8 | — | — | — | — |
| Real estate sales occupations | 6 | — | 50.0 | — | — | — | — |
| Sales representatives, commodities except retail | 24 | 66.7 | 20.8 | — | — | — | — |
| Sales representatives, mining, manufacturing, and wholesale | 24 | 66.7 | 20.8 | — | — | — | — |
| Sales workers, retail and personal services | 152 | 33.6 | 58.6 | 2.0 | 4.6 | — | — |
| Sales workers, motor vehicles and boats | 20 | 60.0 | 40.0 | — | — | — | — |
| Sales counter clerks | 15 | — | 86.7 | — | — | — | — |
| Cashiers | 52 | — | 88.5 | — | — | — | — |
| Street and door-to-door sales workers | 6 | 100.0 | — | — | — | — | — |
| News vendors | 14 | 85.7 | — | — | — | — | — |
| Administrative support occupations, including clerical | 114 | 43.0 | 29.8 | 4.4 | 14.9 | 6.1 | — |
| Supervisors, administrative support occupations | 6 | 50.0 | — | — | — | — | — |
| Secretaries, stenographers, and typists | 12 | — | 41.7 | — | — | — | — |
| Secretaries | 12 | — | 41.7 | — | — | — | — |
| Information clerks | 13 | — | 61.5 | — | — | — | — |
| Records processing occupations, except financial | 7 | 42.9 | — | — | — | — | — |
| Financial records processing occupations | 5 | — | 60.0 | — | — | — | — |
| Mail and message distributing occupations | 25 | 72.0 | 16.0 | — | 12.0 | — | — |
| Mail carriers, postal service | 12 | 83.3 | — | — | — | — | — |
| Messengers | 9 | 66.7 | — | — | — | — | — |
| Material recording, scheduling, and distributing clerks | 22 | 36.4 | 22.7 | — | 27.3 | — | — |
| Traffic, shipping, and receiving clerks | 10 | 40.0 | — | — | — | — | — |
| Miscellaneous administrative support | 19 | 52.6 | 21.1 | — | — | — | — |
| Service occupations | 439 | 34.2 | 41.2 | 3.2 | 5.9 | 7.7 | 7.3 |
| Private household occupations | 6 | — | — | — | — | 50.0 | — |
| Protective service occupations | 257 | 39.7 | 42.4 | 2.3 | 1.2 | 5.8 | 8.2 |
| Firefighting and fire prevention occupations, including supervisors | 45 | 40.0 | — | — | — | 11.1 | 42.2 |
| Firefighting occupations | 43 | 39.5 | — | — | — | 11.6 | 41.9 |
| Police and detectives, including supervisors | 137 | 46.7 | 47.4 | — | — | 2.2 | — |

See footnotes at end of table.

TABLE E-2. Fatal occupational injuries by occupation and event or exposure, 1998 — Continued

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|-------------------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Service occupations – continued | | | | | | | |
| Police and detectives, public services | 86 | 45.3 | 52.3 | – | – | – | – |
| Sheriffs, bailiffs, and other law enforcement officers | 34 | 55.9 | 32.4 | – | – | – | – |
| Correctional institution officers | 8 | 37.5 | 37.5 | – | – | – | – |
| Guards, including supervisors | 75 | 26.7 | 56.0 | 5.3 | – | 9.3 | – |
| Guards and police, except public service | 65 | 23.1 | 61.5 | 4.6 | – | 9.2 | – |
| Service occupations, except protective and household | 176 | 26.1 | 40.3 | 4.5 | 13.1 | 9.1 | 6.2 |
| Food preparation and service occupations | 50 | 10.0 | 62.0 | – | 10.0 | 12.0 | – |
| Supervisors, food preparation and service occupations | 10 | 30.0 | 30.0 | – | – | – | – |
| Bartenders | 6 | – | 100.0 | – | – | – | – |
| Waiters and waitresses | 8 | – | 87.5 | – | – | – | – |
| Cooks | 13 | – | 53.8 | – | – | – | – |
| Kitchen workers, food preparation | 7 | – | 71.4 | – | – | – | – |
| Health service occupations | 17 | 52.9 | 35.3 | – | – | – | – |
| Nursing aides, orderlies, and attendants | 15 | 53.3 | 33.3 | – | – | – | – |
| Cleaning and building service occupations, except household | 69 | 26.1 | 30.4 | 4.3 | 18.8 | 10.1 | 10.1 |
| Maids and housemen | 5 | – | 60.0 | – | – | – | – |
| Janitors and cleaners | 56 | 25.0 | 30.4 | 5.4 | 17.9 | 8.9 | 12.5 |
| Personal service occupations | 40 | 35.0 | 32.5 | 7.5 | 10.0 | 7.5 | – |
| Barbers | 4 | – | 100.0 | – | – | – | – |
| Attendants, amusement and recreation facilities | 7 | 42.9 | – | – | – | – | – |
| Guides | 11 | 63.6 | – | – | 27.3 | – | – |
| Farming, forestry, and fishing | 921 | 48.8 | 5.5 | 27.9 | 6.4 | 9.8 | 1.3 |
| Farming operators and managers | 370 | 55.7 | 4.9 | 26.2 | 4.6 | 7.0 | 1.4 |
| Farmers, except horticultural | 277 | 54.9 | 5.1 | 28.5 | 4.0 | 5.8 | 1.4 |
| Horticultural specialty farmers | 11 | – | – | 27.3 | 27.3 | 27.3 | – |
| Managers, farms, except horticultural | 81 | 64.2 | 4.9 | 17.3 | 3.7 | 8.6 | – |
| Other agricultural and related occupations | 361 | 43.8 | 8.0 | 21.9 | 9.4 | 15.0 | 1.7 |
| Farm occupations, except managerial | 238 | 46.2 | 10.9 | 23.5 | 5.9 | 10.9 | 2.1 |
| Supervisors, farm workers | 16 | 37.5 | – | 18.8 | – | 25.0 | – |
| Farm workers | 218 | 47.2 | 11.5 | 22.9 | 6.4 | 10.1 | 1.4 |
| Nursery workers | 4 | – | – | 75.0 | – | – | – |
| Related agricultural occupations | 123 | 39.0 | 2.4 | 18.7 | 16.3 | 22.8 | – |
| Supervisors, related agricultural occupations | 10 | 40.0 | – | 30.0 | – | – | – |
| Groundskeepers and gardeners, except farm | 108 | 38.0 | 2.8 | 17.6 | 17.6 | 23.1 | – |
| Forestry and logging occupations | 118 | 16.9 | 3.4 | 67.8 | 5.1 | 5.1 | – |
| Supervisors, forestry, and logging workers | 20 | – | – | 75.0 | – | – | – |
| Forestry workers, except logging | 9 | 44.4 | – | – | – | – | – |
| Timber cutting and logging occupations | 89 | 15.7 | 3.4 | 71.9 | 4.5 | 3.4 | – |
| Fishers, hunters, and trappers | 72 | 90.3 | – | – | – | 5.6 | – |
| Fishers, including vessel captains and officers .. | 71 | 90.1 | – | – | – | 5.6 | – |
| Precision production, craft, and repair | 1,084 | 19.2 | 6.7 | 19.4 | 28.2 | 20.8 | 5.4 |

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by occupation and event or exposure, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|---------------------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Precision production, craft, and repair – continued | | | | | | | |
| Mechanics and repairers | 285 | 23.9 | 9.8 | 28.1 | 12.3 | 17.2 | 8.8 |
| Supervisors, mechanics and repairers | 12 | 41.7 | — | — | — | 25.0 | — |
| Mechanics and repairers, except supervisors | 273 | 23.1 | 9.9 | 28.6 | 12.8 | 16.8 | 8.8 |
| Vehicle and mobile equipment mechanics, repairers | 136 | 25.0 | 14.0 | 39.7 | 5.9 | 3.7 | 11.8 |
| Automobile mechanics and apprentices | 48 | 25.0 | 22.9 | 37.5 | — | — | 10.4 |
| Bus, truck, and stationary engine mechanics | 39 | 20.5 | 7.7 | 46.2 | 7.7 | — | 12.8 |
| Automobile body and related repairers | 8 | — | 62.5 | — | — | — | — |
| Heavy equipment mechanics | 28 | 25.0 | — | 39.3 | 14.3 | — | 14.3 |
| Farm equipment mechanics | 5 | 60.0 | — | — | — | — | — |
| Industrial machinery repairers | 18 | — | — | 38.9 | — | 38.9 | — |
| Electrical and electronic equipment repairers | 41 | 26.8 | 9.8 | 7.3 | 22.0 | 29.3 | — |
| Electronic repairers, communications and industrial equipment | 24 | — | 16.7 | — | 20.8 | 45.8 | — |
| Household appliance and power tool repairers | 8 | 87.5 | — | — | — | — | — |
| Telephone line installers and repairers | 6 | — | — | — | 66.7 | — | — |
| Heating, air conditioning, and refrigeration mechanics | 17 | 17.6 | — | — | 17.6 | 47.1 | — |
| Miscellaneous mechanics and repairers | 58 | 22.4 | 6.9 | 20.7 | 22.4 | 20.7 | 6.9 |
| Elevator installers and repairers | 5 | — | — | 60.0 | — | — | — |
| Construction trades | 631 | 16.8 | 3.2 | 13.5 | 39.0 | 25.0 | 2.4 |
| Supervisors, construction occupations | 89 | 39.3 | 7.9 | 12.4 | 18.0 | 20.2 | — |
| Supervisors, electricians and power transmission installers | 7 | — | — | — | — | 57.1 | — |
| Supervisors, n.e.c. | 73 | 46.6 | 4.1 | 12.3 | 19.2 | 15.1 | — |
| Construction trades, except supervisors | 542 | 13.1 | 2.4 | 13.7 | 42.4 | 25.8 | 2.4 |
| Brickmasons, stonemasons, and apprentices | 13 | 23.1 | — | 23.1 | 46.2 | — | — |
| Carpenters and apprentices | 90 | 5.6 | 3.3 | 15.6 | 63.3 | 12.2 | — |
| Drywall installers | 6 | — | — | — | 50.0 | — | — |
| Electricians and apprentices | 124 | 14.5 | — | 15.3 | 15.3 | 51.6 | — |
| Electrical power installers and repairers | 34 | 14.7 | — | — | 20.6 | 44.1 | 14.7 |
| Painters, construction and maintenance | 41 | 14.6 | — | — | 46.3 | 22.0 | 7.3 |
| Plumbers, pipefitters, steamfitters, and apprentices | 33 | 15.2 | — | 30.3 | 33.3 | 12.1 | — |
| Insulation workers | 10 | 50.0 | — | — | 40.0 | — | — |
| Paving, surfacing, and tamping equipment operators | 6 | 66.7 | — | — | — | — | — |
| Roofers | 50 | 6.0 | — | — | 78.0 | 14.0 | — |
| Structural metal workers | 52 | — | — | 9.6 | 82.7 | 5.8 | — |
| Drillers, earth | 8 | — | — | — | — | 62.5 | — |
| Extractive occupations | 60 | 18.3 | — | 45.0 | 11.7 | 8.3 | 13.3 |
| Supervisors, extractive occupations | 9 | 55.6 | — | — | — | — | — |
| Drillers, oil wells | 15 | 20.0 | — | 20.0 | 20.0 | — | 26.7 |
| Mining machine operators | 20 | 15.0 | — | 80.0 | — | — | — |
| Precision production occupations | 108 | 21.3 | 22.2 | 16.7 | 16.7 | 13.0 | 9.3 |
| Precision metal working occupations | 33 | 12.1 | 24.2 | 24.2 | 21.2 | 18.2 | — |
| Machinists | 18 | 16.7 | 27.8 | 27.8 | 22.2 | — | — |

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by occupation and event or exposure, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|---------------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Precision production, craft, and repair – continued | | | | | | | |
| Sheet metal workers | 10 | – | – | – | – | 40.0 | – |
| Plant and system operators | 13 | – | – | – | 23.1 | 23.1 | – |
| Operators, fabricators, and laborers | 2,151 | 54.0 | 7.4 | 17.6 | 9.9 | 7.0 | 4.0 |
| Machine operators, assemblers, and inspectors | 221 | 15.8 | 9.5 | 35.3 | 10.4 | 13.1 | 15.4 |
| Machine operators and tenders, except precision | 135 | 14.8 | 9.6 | 45.9 | 6.7 | 11.1 | 11.1 |
| Metal working and plastic working machine operators | 10 | – | – | 70.0 | – | – | – |
| Metal and plastic processing machine operators | 6 | – | – | 83.3 | – | – | – |
| Molding and casting machine operators | 4 | – | – | 75.0 | – | – | – |
| Woodworking machine operators | 9 | – | – | 88.9 | – | – | – |
| Sawing machine operators | 6 | – | – | 83.3 | – | – | – |
| Textile, apparel, and furnishings machine operators | 8 | – | 50.0 | – | – | – | – |
| Machine operators, assorted materials | 100 | 18.0 | 6.0 | 41.0 | 7.0 | 12.0 | 15.0 |
| Separating, filtering, and clarifying machine operators | 5 | 60.0 | – | – | – | – | – |
| Furnace, kiln, and oven operators except food | 9 | – | – | 44.4 | – | – | – |
| Crushing and grinding machine operators | 6 | – | – | 66.7 | – | – | – |
| Slicing and cutting machine operators | 8 | – | – | 37.5 | – | – | 37.5 |
| Miscellaneous machine operators, n.e.c. | 35 | 17.1 | 8.6 | 45.7 | – | 17.1 | – |
| Machine operators, not specified | 22 | 22.7 | – | 54.5 | – | – | 13.6 |
| Fabricators, assemblers, and hand working occupations | 79 | 19.0 | 10.1 | 16.5 | 15.2 | 15.2 | 24.1 |
| Welders and cutters | 65 | 18.5 | 6.2 | 16.9 | 13.8 | 16.9 | 27.7 |
| Assemblers | 12 | – | 33.3 | – | – | – | – |
| Production inspectors, testers, samplers, and weighers | 7 | – | – | 42.9 | – | – | – |
| Transportation and material moving occupations ... | 1,257 | 73.7 | 7.6 | 11.0 | 2.7 | 3.1 | 1.8 |
| Motor vehicle operators | 1,020 | 78.2 | 8.8 | 7.7 | 2.3 | 2.1 | .7 |
| Truck drivers | 879 | 82.0 | 3.4 | 8.6 | 2.5 | 2.4 | .8 |
| Driver-sales workers | 36 | 75.0 | 16.7 | – | – | – | – |
| Bus drivers | 13 | 76.9 | – | – | – | – | – |
| Taxicab drivers and chauffeurs | 82 | 39.0 | 61.0 | – | – | – | – |
| Transportation occupations, except motor vehicles | 40 | 77.5 | – | 7.5 | – | 7.5 | – |
| Rail transportation occupations | 15 | 86.7 | – | – | – | – | – |
| Railroad conductors and yardmasters | 4 | 75.0 | – | – | – | – | – |
| Locomotive operating occupations | 5 | 100.0 | – | – | – | – | – |
| Railroad brake, signal, and switch operators | 5 | 80.0 | – | – | – | – | – |
| Water transportation occupations | 25 | 72.0 | – | – | – | 12.0 | – |
| Ship captains and mates, except fishing boats | 3 | 100.0 | – | – | – | – | – |
| Sailors and deckhands | 18 | 66.7 | – | – | – | 16.7 | – |
| Material moving equipment operators | 197 | 49.2 | 2.5 | 28.4 | 5.1 | 7.6 | 7.1 |
| Operating engineers | 46 | 58.7 | – | 23.9 | 6.5 | 8.7 | – |

See footnotes at end of table.

TABLE E-2. **Fatal occupational injuries by occupation and event or exposure, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Event or exposure ² (percent) | | | | | |
|-----------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|------------------------------------|-------|------------------------------------------------|----------------------|
| | | Transportation incidents ³ | Assaults and violent acts ⁴ | Contact with objects and equipment | Falls | Exposure to harmful substances or environments | Fires and explosions |
| Operators, fabricators, and laborers – continued | | | | | | | |
| Hoist and winch operators | 14 | – | – | – | – | – | 50.0 |
| Crane and tower operators | 12 | – | – | 50.0 | – | – | – |
| Excavating and loading machine operators ... | 24 | 45.8 | – | 45.8 | – | – | – |
| Grader, dozer, and scraper operators | 20 | 65.0 | – | 25.0 | – | – | – |
| Industrial truck and tractor equipment operators | 46 | 65.2 | – | 23.9 | 8.7 | – | – |
| Handlers, equipment cleaners, helpers, and laborers | 673 | 29.7 | 6.2 | 24.1 | 23.2 | 12.2 | 4.5 |
| Helpers, construction and extractive occupations | 19 | – | – | 15.8 | 42.1 | 26.3 | – |
| Helpers, construction trades | 17 | – | – | 17.6 | 47.1 | 29.4 | – |
| Construction laborers | 335 | 30.4 | 1.2 | 22.4 | 31.9 | 12.5 | 1.5 |
| Freight, stock, and material handlers | 80 | 48.8 | 10.0 | 18.8 | 8.8 | 8.8 | 5.0 |
| Garbage collectors | 25 | 76.0 | – | 20.0 | – | – | – |
| Stevedores | 11 | 72.7 | – | – | – | – | – |
| Stock handlers and baggers | 10 | – | 50.0 | – | – | – | – |
| Garage and service station related occupations | 24 | 25.0 | 45.8 | 16.7 | – | – | 12.5 |
| Vehicle washers and equipment cleaners | 12 | 33.3 | 33.3 | – | – | – | – |
| Laborers, except construction | 192 | 24.0 | 5.7 | 31.8 | 16.1 | 13.0 | 8.9 |
| Military occupations⁵ | 88 | 71.6 | 9.1 | 11.4 | – | 6.8 | – |

¹ Based on the 1990 Occupational Classification System developed by the Bureau of the Census.

² Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

³ Includes highway, nonhighway, air, water, and rail fatalities.

⁴ Includes violence by persons, self-inflicted injury, and assaults by animals.

⁵ Resident armed forces.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding. There were 28 fatalities for which there was insufficient information to determine a specific occupation classification. Dashes indicate no data reported or data that do not meet publication criteria. n.e.c means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries

TABLE E-3. Fatal occupational injuries resulting from transportation incidents and homicides by occupation, 1998

| Occupation ¹ | Total fatalities (number) | Transportation incidents (percent) | | | | | Homicides (percent) | | |
|---------------------------------------------------------------|---------------------------|------------------------------------|-------------------|-----------------------|--------------------------|------------------------------------|---------------------|-----------------------|---------------------|
| | | Total | Highway incidents | Non-highway incidents | Worker struck by vehicle | All other transportation incidents | Total | Homicides by shooting | All other homicides |
| Total | 6,026 | 43.6 | 23.7 | 6.4 | 6.9 | 6.7 | 11.8 | 9.4 | 2.3 |
| Managerial and professional specialty | 637 | 44.4 | 26.8 | 1.9 | 5.2 | 10.5 | 20.6 | 14.9 | 5.7 |
| Executive, administrative, and managerial | 408 | 38.7 | 24.8 | 1.7 | 5.1 | 7.1 | 25.0 | 18.6 | 6.4 |
| Administrators and officials, public administration | 10 | 50.0 | — | — | — | — | 40.0 | 40.0 | — |
| Administrators, protective services | 7 | — | — | — | — | — | 57.1 | — | — |
| Financial managers | 8 | 50.0 | — | — | — | — | 50.0 | 50.0 | — |
| Managers, marketing, advertising, and public relations | 7 | 85.7 | 71.4 | — | — | — | — | — | — |
| Managers, food serving and lodging establishments | 56 | 17.9 | 8.9 | — | — | — | 64.3 | 44.6 | 19.6 |
| Managers, properties and real estate | 16 | 25.0 | — | — | — | — | 25.0 | — | — |
| Managers, service organizations, n.e.c. | 10 | 40.0 | — | — | — | — | — | — | — |
| Managers and administrators, n.e.c. | 215 | 35.3 | 19.5 | 1.9 | 4.7 | 9.3 | 16.3 | 12.1 | 4.2 |
| Management related occupations | 62 | 59.7 | 45.2 | — | — | 8.1 | 12.9 | 12.9 | — |
| Accountants and auditors | 18 | 50.0 | 27.8 | — | — | — | — | — | — |
| Other financial officers | 10 | 50.0 | 50.0 | — | — | — | — | — | — |
| Construction inspectors | 6 | 66.7 | 66.7 | — | — | — | — | — | — |
| Inspectors and compliance officers, except construction | 10 | 60.0 | 50.0 | — | — | — | — | — | — |
| Professional specialty | 229 | 54.6 | 30.6 | 2.2 | 5.2 | 16.6 | 12.7 | 8.3 | 4.4 |
| Engineers, architects, and surveyors | 48 | 62.5 | 35.4 | — | 12.5 | 12.5 | — | — | — |
| Engineers | 46 | 63.0 | 37.0 | — | 10.9 | 13.0 | — | — | — |
| Civil engineers | 9 | 88.9 | 44.4 | — | — | — | — | — | — |
| Industrial | 4 | 100.0 | — | — | — | — | — | — | — |
| Mathematical and computer scientists | 8 | 62.5 | 50.0 | — | — | — | — | — | — |
| Computer systems analysts and scientists | 8 | 62.5 | 50.0 | — | — | — | — | — | — |
| Natural scientists | 10 | 70.0 | — | — | — | — | — | — | — |
| Health assessment and treating occupations | 17 | 58.8 | 41.2 | — | — | — | — | — | — |
| Registered nurses | 14 | 64.3 | 42.9 | — | — | — | — | — | — |
| Teachers, postsecondary | 11 | 63.6 | 54.5 | — | — | — | — | — | — |
| Teachers, except postsecondary | 37 | 67.6 | 29.7 | — | — | 35.1 | 16.2 | 16.2 | — |
| Teachers, secondary school | 8 | 50.0 | — | — | — | — | — | — | — |
| Social, recreation, and religious workers | 23 | 39.1 | 26.1 | — | — | — | 39.1 | — | 26.1 |
| Social workers | 11 | 45.5 | 36.4 | — | — | — | 45.5 | — | — |
| Lawyers and judges | 17 | 47.1 | — | — | — | 29.4 | — | — | — |
| Lawyers | 17 | 47.1 | — | — | — | 29.4 | — | — | — |
| Writers, artists, entertainers, and athletes | 40 | 45.0 | 20.0 | — | — | 12.5 | 10.0 | — | — |
| Photographers | 6 | 100.0 | — | — | — | — | — | — | — |
| Athletes | 14 | 28.6 | — | — | — | — | — | — | — |
| Technical, sales, and administrative support | 678 | 45.0 | 24.5 | — | 3.5 | 16.5 | 35.3 | 28.5 | 6.8 |
| Technicians and related support occupations | 168 | 83.3 | 20.2 | — | 4.2 | 58.9 | 3.0 | — | — |
| Health technologists and technicians | 21 | 76.2 | 52.4 | — | — | 23.8 | — | — | — |
| Engineering and related technologists and technicians | 29 | 51.7 | 24.1 | — | 20.7 | — | — | — | — |
| Electrical and electronic technicians | 14 | 50.0 | 42.9 | — | — | — | — | — | — |
| Technicians, except health, engineering, and science | 113 | 94.7 | 12.4 | — | — | 81.4 | — | — | — |
| Airplane pilots and navigators | 91 | 100.0 | — | — | — | 97.8 | — | — | — |
| Sales occupations | 396 | 29.3 | 23.5 | — | 3.0 | 2.5 | 52.0 | 42.7 | 9.3 |
| Supervisors and proprietors, sales occupations | 185 | 14.6 | 11.4 | — | — | — | 63.2 | 54.1 | 9.2 |

See footnotes at end of table.

TABLE E-3. **Fatal occupational injuries resulting from transportation incidents and homicides by occupation, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Transportation incidents (percent) | | | | | Homicides (percent) | | |
|---------------------------------------------------------------------------|---------------------------|------------------------------------|-------------------|-----------------------|--------------------------|------------------------------------|---------------------|-----------------------|---------------------|
| | | Total | Highway incidents | Non-highway incidents | Worker struck by vehicle | All other transportation incidents | Total | Homicides by shooting | All other homicides |
| Technical, sales, and administrative support – continued | | | | | | | | | |
| Sales representatives, finance and business services | 31 | 64.5 | 61.3 | – | – | – | 19.4 | 16.1 | – |
| Sales representatives, commodities except retail | 24 | 66.7 | 62.5 | – | – | – | – | – | – |
| Sales representatives, mining, manufacturing, and wholesale | 24 | 66.7 | 62.5 | – | – | – | – | – | – |
| Sales workers, retail and personal services | 152 | 33.6 | 24.3 | – | 4.6 | 3.9 | 52.6 | 40.8 | 11.8 |
| Sales workers, motor vehicles and boats | 20 | 60.0 | 45.0 | – | – | – | 30.0 | 25.0 | – |
| Sales counter clerks | 15 | – | – | – | – | – | 80.0 | 53.3 | 26.7 |
| Cashiers | 52 | – | – | – | – | – | 86.5 | 71.2 | 15.4 |
| Street and door-to-door sales workers | 6 | 100.0 | – | – | – | – | – | – | – |
| News vendors | 14 | 85.7 | 78.6 | – | – | – | – | – | – |
| Administrative support occupations, including clerical | 114 | 43.0 | 34.2 | – | 4.4 | – | 24.6 | 19.3 | 5.3 |
| Secretaries, stenographers, and typists | 12 | – | – | – | – | – | 41.7 | 33.3 | – |
| Secretaries | 12 | – | – | – | – | – | 41.7 | 33.3 | – |
| Information clerks | 13 | – | – | – | – | – | 61.5 | 38.5 | – |
| Mail and message distributing occupations | 25 | 72.0 | 72.0 | – | – | – | – | – | – |
| Mail carriers, postal service | 12 | 83.3 | 83.3 | – | – | – | – | – | – |
| Messengers | 9 | 66.7 | 66.7 | – | – | – | – | – | – |
| Material recording, scheduling, and distributing clerks | 22 | 36.4 | – | – | – | – | 18.2 | – | – |
| Traffic, shipping, and receiving clerks | 10 | 40.0 | – | – | – | – | – | – | – |
| Miscellaneous administrative support | 19 | 52.6 | 42.1 | – | – | – | 21.1 | 21.1 | – |
| Service occupations | 439 | 34.2 | 21.6 | 1.1 | 8.2 | 3.2 | 33.0 | 28.0 | 5.0 |
| Protective service occupations | 257 | 39.7 | 24.9 | – | 11.3 | 2.7 | 35.4 | 31.9 | 3.5 |
| Firefighting and fire prevention occupations, including supervisors | 45 | 40.0 | 17.8 | – | 13.3 | – | – | – | – |
| Firefighting occupations | 43 | 39.5 | 18.6 | – | 11.6 | – | – | – | – |
| Police and detectives, including supervisors | 137 | 46.7 | 34.3 | – | 9.5 | 2.9 | 38.0 | 37.2 | – |
| Police and detectives, public services | 86 | 45.3 | 30.2 | – | 11.6 | – | 47.7 | 47.7 | – |
| Sheriffs, bailiffs, and other law enforcement officers | 34 | 55.9 | 47.1 | – | – | – | 20.6 | 20.6 | – |
| Guards, including supervisors | 75 | 26.7 | 12.0 | – | 13.3 | – | 52.0 | 41.3 | 10.7 |
| Guards and police, except public service | 65 | 23.1 | 10.8 | – | 12.3 | – | 56.9 | 46.2 | 10.8 |
| Service occupations, except protective and household | 176 | 26.1 | 17.0 | – | 4.0 | 4.0 | 30.1 | 22.7 | 7.4 |
| Food preparation and service occupations | 50 | 10.0 | – | – | – | – | 56.0 | 40.0 | 16.0 |
| Bartenders | 6 | – | – | – | – | – | 83.3 | 66.7 | – |
| Waiters and waitresses | 8 | – | – | – | – | – | 87.5 | 62.5 | – |
| Cooks | 13 | – | – | – | – | – | 46.2 | 30.8 | – |
| Kitchen workers, food preparation | 7 | – | – | – | – | – | 71.4 | 71.4 | – |
| Health service occupations | 17 | 52.9 | 47.1 | – | – | – | 35.3 | 29.4 | – |
| Nursing aides, orderlies, and attendants | 15 | 53.3 | 46.7 | – | – | – | 33.3 | 26.7 | – |
| Cleaning and building service occupations, except household | 69 | 26.1 | 21.7 | – | – | – | 11.6 | 5.8 | 5.8 |
| Janitors and cleaners | 56 | 25.0 | 19.6 | – | – | – | 8.9 | – | – |
| Personal service occupations | 40 | 35.0 | 12.5 | – | – | 17.5 | 27.5 | 27.5 | – |
| Barbers | 4 | – | – | – | – | – | 100.0 | 100.0 | – |
| Guides | 11 | 63.6 | – | – | – | 54.5 | – | – | – |

See footnotes at end of table.

TABLE E-3. Fatal occupational injuries resulting from transportation incidents and homicides by occupation, 1998 — Continued

| Occupation ¹ | Total fatalities (number) | Transportation incidents (percent) | | | | | Homicides (percent) | | |
|---------------------------------------------------------------------|---------------------------|------------------------------------|-------------------|-----------------------|--------------------------|------------------------------------|---------------------|-----------------------|---------------------|
| | | Total | Highway incidents | Non-highway incidents | Worker struck by vehicle | All other transportation incidents | Total | Homicides by shooting | All other homicides |
| Farming, forestry, and fishing | 921 | 48.8 | 11.0 | 24.9 | 5.6 | 7.3 | 2.1 | 2.0 | — |
| Farming operators and managers | 370 | 55.7 | 10.8 | 39.2 | 5.4 | — | 1.6 | 1.6 | — |
| Farmers, except horticultural | 277 | 54.9 | 9.4 | 40.1 | 5.1 | — | 1.4 | 1.4 | — |
| Managers, farms, except horticultural | 81 | 64.2 | 17.3 | 40.7 | 6.2 | — | — | — | — |
| Other agricultural and related occupations | 361 | 43.8 | 15.8 | 20.2 | 7.5 | — | 3.3 | 3.0 | — |
| Farm occupations, except managerial | 238 | 46.2 | 14.7 | 23.5 | 8.0 | — | 4.6 | 4.2 | — |
| Supervisors, farm workers | 16 | 37.5 | — | 25.0 | — | — | — | — | — |
| Farm workers | 218 | 47.2 | 16.1 | 23.4 | 7.8 | — | 4.6 | 4.1 | — |
| Related agricultural occupations | 123 | 39.0 | 17.9 | 13.8 | 6.5 | — | — | — | — |
| Supervisors, related agricultural occupations | 10 | 40.0 | — | — | — | — | — | — | — |
| Groundskeepers and gardeners, except farm | 108 | 38.0 | 14.8 | 15.7 | 6.5 | — | — | — | — |
| Forestry and logging occupations | 118 | 16.9 | 3.4 | 9.3 | 4.2 | — | — | — | — |
| Forestry workers, except logging | 9 | 44.4 | — | — | — | — | — | — | — |
| Timber cutting and logging occupations | 89 | 15.7 | — | 9.0 | 5.6 | — | — | — | — |
| Fishers, hunters, and trappers | 72 | 90.3 | — | — | — | 90.3 | — | — | — |
| Fishers, including vessel captains and officers .. | 71 | 90.1 | — | — | — | 90.1 | — | — | — |
| Precision production, craft, and repair | 1,084 | 19.2 | 10.2 | 2.0 | 5.4 | 1.5 | 3.8 | 2.6 | 1.2 |
| Mechanics and repairers | 285 | 23.9 | 13.0 | 2.5 | 5.6 | 2.8 | 6.0 | 3.9 | 2.1 |
| Supervisors, mechanics and repairers | 12 | 41.7 | — | — | — | — | — | — | — |
| Mechanics and repairers, except supervisors | 273 | 23.1 | 12.5 | 2.2 | 5.5 | 2.9 | 5.9 | 3.7 | 2.2 |
| Vehicle and mobile equipment mechanics, repairers | 136 | 25.0 | 8.1 | 3.7 | 9.6 | 3.7 | 5.9 | 4.4 | — |
| Automobile mechanics and apprentices | 48 | 25.0 | 12.5 | — | 10.4 | — | 8.3 | — | — |
| Bus, truck, and stationary engine mechanics | 39 | 20.5 | — | — | 15.4 | — | — | — | — |
| Heavy equipment mechanics | 28 | 25.0 | — | — | — | — | — | — | — |
| Electrical and electronic equipment repairers | 41 | 26.8 | 22.0 | — | — | — | 9.8 | — | — |
| Electronic repairers, communications and industrial equipment | 24 | — | — | — | — | — | 16.7 | — | — |
| Household appliance and power tool repairers | 8 | 87.5 | 75.0 | — | — | — | — | — | — |
| Miscellaneous mechanics and repairers | 58 | 22.4 | 19.0 | — | — | — | 6.9 | — | — |
| Construction trades | 631 | 16.8 | 8.7 | 1.6 | 5.5 | 1.0 | 1.3 | 1.0 | — |
| Supervisors, construction occupations | 89 | 39.3 | 15.7 | — | 18.0 | — | 4.5 | 4.5 | — |
| Supervisors, n.e.c. | 73 | 46.6 | 19.2 | — | 20.5 | — | — | — | — |
| Construction trades, except supervisors | 542 | 13.1 | 7.6 | 1.3 | 3.5 | .7 | .7 | — | — |
| Carpenters and apprentices | 90 | 5.6 | 4.4 | — | — | — | — | — | — |
| Electricians and apprentices | 124 | 14.5 | 7.3 | — | 4.8 | — | — | — | — |
| Electrical power installers and repairers | 34 | 14.7 | — | — | — | — | — | — | — |
| Painters, construction and maintenance | 41 | 14.6 | 14.6 | — | — | — | — | — | — |
| Plumbers, pipefitters, steamfitters, and apprentices | 33 | 15.2 | — | — | — | — | — | — | — |
| Insulation workers | 10 | 50.0 | 40.0 | — | — | — | — | — | — |
| Paving, surfacing, and tamping equipment operators | 6 | 66.7 | — | — | 66.7 | — | — | — | — |
| Extractive occupations | 60 | 18.3 | 8.3 | 6.7 | — | — | — | — | — |
| Supervisors, extractive occupations | 9 | 55.6 | — | — | — | — | — | — | — |
| Precision production occupations | 108 | 21.3 | 13.0 | — | 6.5 | — | 13.9 | 9.3 | 4.6 |
| Precision metal working occupations | 33 | 12.1 | 12.1 | — | — | — | — | — | — |

See footnotes at end of table.

TABLE E-3. **Fatal occupational injuries resulting from transportation incidents and homicides by occupation, 1998** — Continued

| Occupation ¹ | Total fatalities (number) | Transportation incidents (percent) | | | | | Homicides (percent) | | |
|-------------------------------------------------------------|---------------------------|------------------------------------|-------------------|-----------------------|--------------------------|------------------------------------|---------------------|-----------------------|---------------------|
| | | Total | Highway incidents | Non-highway incidents | Worker struck by vehicle | All other transportation incidents | Total | Homicides by shooting | All other homicides |
| Operators, fabricators, and laborers | 2,151 | 54.0 | 35.9 | 4.9 | 9.6 | 3.5 | 6.0 | 5.0 | 0.9 |
| Machine operators, assemblers, and inspectors | 221 | 15.8 | 5.4 | 1.8 | 5.0 | 3.6 | 6.3 | 5.4 | — |
| Machine operators and tenders, except precision | 135 | 14.8 | 4.4 | — | 5.2 | 3.7 | 5.2 | 4.4 | — |
| Machine operators, assorted materials | 100 | 18.0 | 5.0 | — | 6.0 | 5.0 | 4.0 | — | — |
| Miscellaneous machine operators, n.e.c. | 35 | 17.1 | — | — | — | — | — | — | — |
| Machine operators, not specified | 22 | 22.7 | — | — | — | — | — | — | — |
| Fabricators, assemblers, and hand working occupations | 79 | 19.0 | 7.6 | — | 5.1 | — | 8.9 | 7.6 | — |
| Welders and cutters | 65 | 18.5 | 6.2 | — | 6.2 | — | 6.2 | 6.2 | — |
| Transportation and material moving occupations ... | 1,257 | 73.7 | 55.2 | 6.4 | 7.4 | 4.7 | 6.6 | 5.6 | 1.0 |
| Motor vehicle operators | 1,020 | 78.2 | 66.3 | 2.5 | 6.6 | 2.8 | 7.7 | 6.7 | 1.1 |
| Truck drivers | 879 | 82.0 | 69.3 | 2.4 | 7.3 | 3.1 | 2.5 | 2.3 | — |
| Driver-sales workers | 36 | 75.0 | 63.9 | — | — | — | 13.9 | 13.9 | — |
| Bus drivers | 13 | 76.9 | 61.5 | — | — | — | — | — | — |
| Taxicab drivers and chauffeurs | 82 | 39.0 | 37.8 | — | — | — | 59.8 | 48.8 | 11.0 |
| Transportation occupations, except motor vehicles | 40 | 77.5 | — | — | 12.5 | 65.0 | — | — | — |
| Rail transportation occupations | 15 | 86.7 | — | — | 26.7 | 60.0 | — | — | — |
| Locomotive operating occupations | 5 | 100.0 | — | — | — | 80.0 | — | — | — |
| Railroad brake, signal, and switch operators | 5 | 80.0 | — | — | — | — | — | — | — |
| Water transportation occupations | 25 | 72.0 | — | — | — | 68.0 | — | — | — |
| Sailors and deckhands | 18 | 66.7 | — | — | — | 66.7 | — | — | — |
| Material moving equipment operators | 197 | 49.2 | 9.1 | 27.4 | 10.7 | 2.0 | — | — | — |
| Operating engineers | 46 | 58.7 | 21.7 | 15.2 | 19.6 | — | — | — | — |
| Excavating and loading machine operators ... | 24 | 45.8 | — | 25.0 | — | — | — | — | — |
| Grader, dozer, and scraper operators | 20 | 65.0 | — | 45.0 | — | — | — | — | — |
| Industrial truck and tractor equipment operators | 46 | 65.2 | — | 56.5 | — | — | — | — | — |
| Handlers, equipment cleaners, helpers, and laborers | 673 | 29.7 | 10.0 | 3.1 | 15.3 | 1.3 | 4.6 | 3.9 | .7 |
| Construction laborers | 335 | 30.4 | 10.7 | 2.4 | 17.3 | — | — | — | — |
| Freight, stock, and material handlers | 80 | 48.8 | 12.5 | — | 28.8 | — | 7.5 | 5.0 | — |
| Garbage collectors | 25 | 76.0 | 24.0 | — | 48.0 | — | — | — | — |
| Stevedores | 11 | 72.7 | — | — | 36.4 | — | — | — | — |
| Stock handlers and baggers | 10 | — | — | — | — | — | 40.0 | — | — |
| Garage and service station related occupations | 24 | 25.0 | — | — | 25.0 | — | 45.8 | 41.7 | — |
| Vehicle washers and equipment cleaners | 12 | 33.3 | — | — | — | — | — | — | — |
| Laborers, except construction | 192 | 24.0 | 8.9 | 4.7 | 7.8 | 2.6 | 4.2 | 3.1 | — |
| Military occupations ² | 88 | 71.6 | 12.5 | 8.0 | — | 50.0 | — | — | — |

¹ Based on the 1990 Occupational Classification System developed by the Bureau of the Census.

² Resident armed forces.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding. There were 28 fatalities for which there was insufficient

information to determine a specific occupation classification. Dashes indicate no data reported or data that do not meet publication criteria. n.e.c. means "not elsewhere classified."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries